

## URBAN ASSAULT COURSE (UAC)

**Purpose:** The UAC is designed to provide squad- and platoon-size units with a facility to train and evaluate urban operations tasks. With the exception of Station 3--Grenadier Gunnery--the UAC is not intended for live-fire training. Station 3 is designed to support 40-mm TP and 5.56-mm service ammunition. Various types of organizations with a variety of missions can train at the UAC. Operations in an urban environment may include combat and stability as well as support tasks. The UAC is a dismounted training facility.

**Targetry:** Targets throughout the UAC are either 3D precision targets, interior precision Human Urban Targets (HUT) (for engagements less than 50m), or 2D non-precision exterior Stationary Infantry Targets (SIT) (for engagements greater than 50m). The government will furnish these targets. See the UAC Narrative Description for pictures of these targets.

- a. Precision targets support short distance engagements. Sensors contained within the precision target respond only to lethal shot placement.
- b. Non-precision targets support engagements that are at ranges greater than 50m. These targets are 2D pop-up Stationary Infantry Targets (SIT).

**Facility Descriptions:** The UAC has five training stations that facilitate the crawl/walk/run training concept (See the Layout Details in the Appendix of this document for the UAC station details). The UAC stations include:

Station 1 - Individual and Team Trainer. This station is a three-room trainer where team leaders and squad leaders train the basics of building and room clearing. This station is used to train individual and collective tasks, tactics, techniques, and procedures, such as entering a building, clearing a room, and engaging targets. (See drawing UAC-2 in the Appendix of this document). This structure is constructed with wood and is comprised of three rooms, which have open doorways, windows, and a man-size hole.

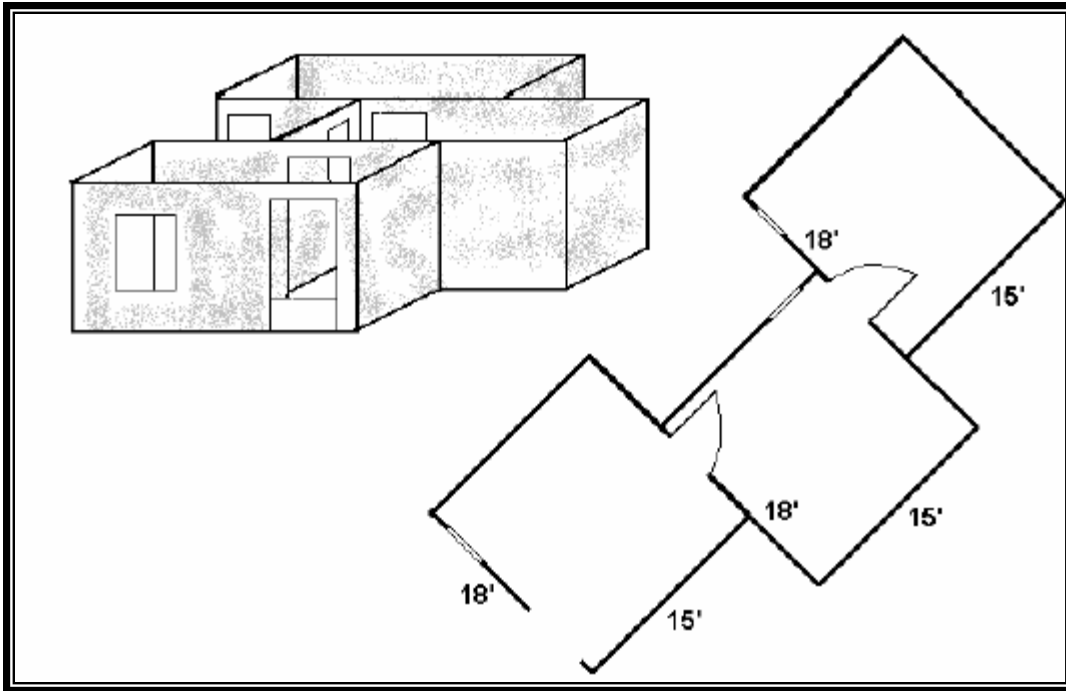


Figure 1 - Individual and Team Trainer.

Typical Configuration.

Size:	75.2 square m (810 square ft)
Occupancy:	N/A
Foundation:	Pressure treated wood posts in concrete
Shell:	13 mm plywood siding
Roof:	None
Doors:	Two interior doors (operational) and one exterior
Windows:	No glazing
Interior Finishes:	None
HVAC:	None
Standard Lighting:	None
Lightning Protection:	None
Power:	120/240 Volts (1) NEMA L14-20R, (1) NEMA L5-20R per target power outlet. 1-120 Volt maintenance receptacle per room and 1- 120 Volt duplex receptacles for the data network enclosure.
Telephone:	None
Data Communication:	(2) CAT6 RJ-45 jacks per target data outlet
Cameras:	None
Target Power Outlets/Cable Jacks:	6 (two per room)

Station 2 - Squad and Platoon Trainer. This station is a four-structure trainer with multiple rooms. Squads build upon tasks learned at Station 1 and begin

to learn the concepts of clearing multiple buildings. The station is designed in such a way that it can be used as separate buildings with a narrow street or as individual rooms inside a building with a long, connecting hallway. This station is used to train individual and collective tasks, tactics, techniques, and procedures. Specific tasks include moving tactically down a street (hallway), entering a building, clearing a room, and engaging targets. Station 2 increases the complexity of command, control, and maneuver. This station has four separate structures that face inward to create a street and introduces a two-story building. (See the Layout Details in the Appendix of this document and Figure 2 below).

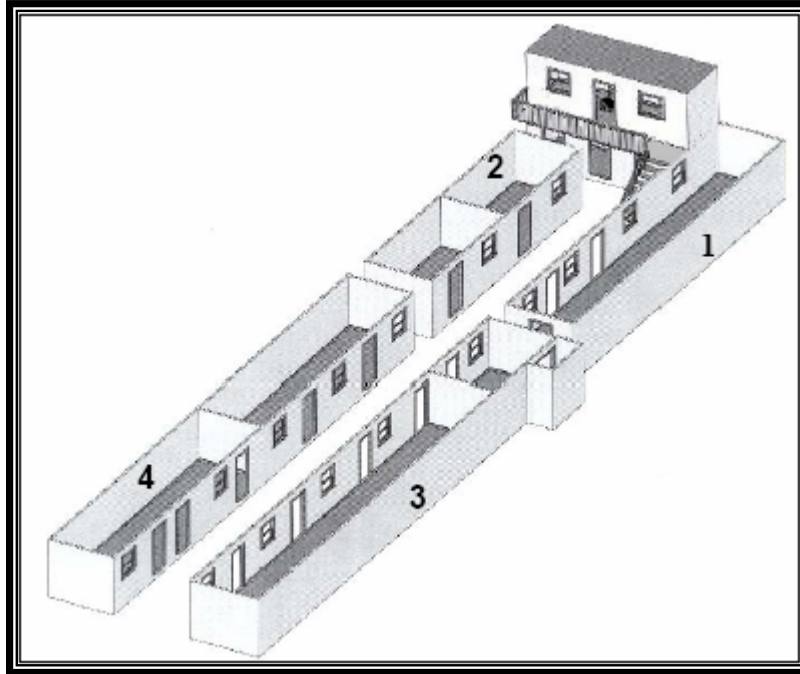


Figure 2 - Squad and Platoon Trainer.

- a. Building 1 is an L-shape structure. The long leg of the building to the right appears to be a single-story building; the short leg of the building to the front is a two-story structure. A landing is located along the length of the second floor with outside stairs leading down. An inside stairway also joins the floors. The two legs of the L are adjacent, with no access to their interiors between them.
- b. Building 2 has a single floor and two rooms; each room has a window and a doorway. An open area much like a street separates this structure from the first.
- c. Building 3 is a structure that appears to be a row of buildings along a street. The structure is made of wood and has many windows and doorways. At the far end of the structure is an adjoining room.

- d. Building 4 is a structure located to the left that is a mirror image of building three (similar in façade only; the interior is divided differently). It includes a wall on the side at the near end.

NOTE. Units can place additional walls in all the structures by using target cloth or some other material to add to the number of rooms or complexity of the training.

#### Typical Configuration.

Size:	225.82 square m (741.0 square ft)
Occupancy:	N/A
Foundation:	Pressure treated wood posts in concrete
Shell:	13 mm plywood siding
Roof:	None, except two-story section
Doors:	18 door openings with no doors
Windows:	Window openings with no glazing
Interior Finishes:	None
HVAC:	None
Standard Lighting:	None
Lightning Protection:	None
Power:	120/240 Volts -(1) NEMA L14-20R, (1) NEMA L5-20R per target power outlet. 2-120 Volt maintenance receptacles per building/floor and 120 Volt duplex receptacles for the data network enclosure.
Telephone:	None
Data Communication:	(2) CAT6 RJ-45 jacks per target data outlet
Cameras:	None
Target Power Outlets/Cable Jacks:	4 double, 8 single

Station 3 - Grenadier Gunnery Trainer. This station is a live-fire station where M203 gunners master target engagements in an urban area, move tactically, and respond to fire commands. This station is used to train M203 (Dual-Purpose Weapon) gunners on the engagement of targets in an urban area. M16 targets (SITs) are located 50 to 150m downrange. Tactical movement and fire commands are also trained at this station.

**Description.** This station has two main parts. The first part consists of a wooden facade wall that depicts a two-story building. This facade is about 20 feet high by 30 feet wide. It includes three upper floor windows and two lower floor windows and a doorway with outside steps. Two basement windows at ground level are optional. The second part consists of the target engagement lane and seven firing positions located between the wooden façade and the first firing position. These positions are provided with covers, such as sandbags, log walls, and rubble. Firing points can be adjusted to support a variety of training

scenarios. (See the Layout Details in the Appendix of this document and Figure 3 below).

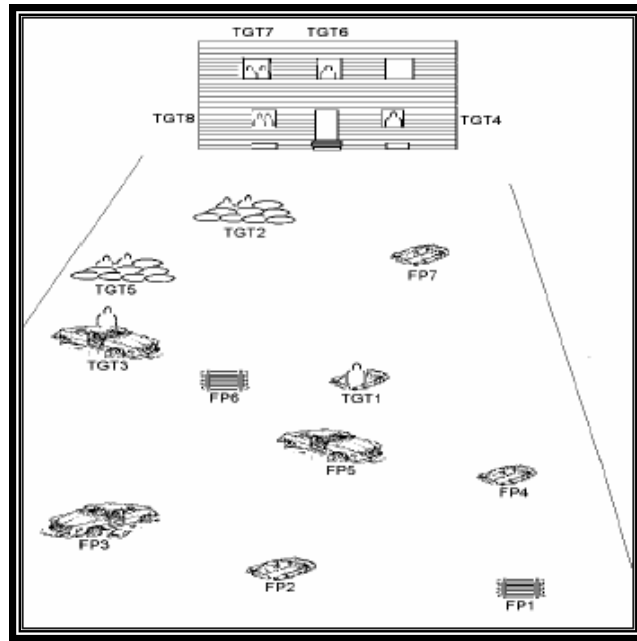


Figure 3 - Grenadier Gunnery Trainer.

#### Typical Configuration.

Size:	Not Applicable (N/A)
Occupancy:	N/A
Foundation:	Pressure treated wood posts in concrete
Shell:	13 mm plywood siding
Roof:	None
Doors:	None
Windows:	No glazing
Interior Finishes:	None
HVAC:	None
Standard Lighting:	None
Lightning Protection:	None
Power:	120/240 Volts (1) NEMA L14-20R, (1) NEMA L5-20R per target power outlet. 1-120 Volt maintenance receptacles per target emplacement/façade and 120 Volt duplex receptacles for the data network enclosure.
Telephone:	None
Data Communication:	(2) CAT6 RJ-45 jacks per target data outlet
Cameras:	None
Target Power Outlets/Cable Jacks:	2 Single, 5 Double

Station 4 - Offense/Defense House. This station is the location in which a platoon can train to attack and/or defend a building. Station 4 can also be divided into a number of smaller training stations to reinforce training or to train tasks not yet trained at the other stations. This station is used to train collective tasks and individual tasks, tactics, techniques, and procedures. It allows the platoon to exercise the task steps and performance measures associated with the offensive and defensive tasks. Station 4 increases the complexity of command, control, and maneuver. (See Figure 4 below).



Figure 4 - Offense/Defense House.

Description. This station is a two-story building with a basement. Each floor has several rooms, windows, doorways, loopholes, and mouseholes. The gabled roof has windows and a hatch to the attic below. Half of the rooftop is flat. The building has exterior and interior stairways.

#### Typical Configuration.

Size:	428.1 square m (1404.5 square ft)
Occupancy:	N/A
Foundation:	Concrete Spread Footings
Shell:	Concrete Masonry Units (CMU)
Roof:	Shingles
Doors:	Yes
Windows:	Shutters, reinforced sills, no glazing
Interior Finishes:	Painted

HVAC:	None
Standard Lighting:	Yes (6)
Lightning Protection:	None
Power:	120/240 Volts -(1) NEMA L14-20R, (1) NEMA L5-20R per target power outlet. 6-120 Volt maintenance receptacles per floor of the building. 120 Volt quadplex receptacles for the data network enclosure.
Telephone:	None
Data Communication:	(2) CAT6 RJ-45 jacks per target data outlet
Cameras:	None
Target Power Outlets/Cable Jacks:	42

Safety Requirements. Only smoke, practice, and M84 stun grenades may be used at this station. Station 4 is not a live-fire station. Training is conducted using Tactical Engagement System (TES) with blank 5.56-mm and/or Special Effects Small-Arms Marking System (SESAMS). Units should consult with their supporting combat engineers for the proper demolition effects simulators (DES) for use against the blow panels located throughout the station.

Station 5 - Underground Trainer. This station provides training for subterranean operations. Station 5 is designed to train up to a squad on clearing and moving tactically in a subterranean environment.

Description. This station is a sewer system built in an irregular pattern with four manhole covers. Two access tunnels lead from the outside tunnel to the underground loop. The station is completely covered by dirt. Only the manholes and ground level entrances are exposed. This station is normally built above grade and covered with dirt, rather than buried, to help keep the trainer dry. The station is also designed to keep unwanted animals out. (See the Layout Details in the Appendix of this document and Figure 5 below).

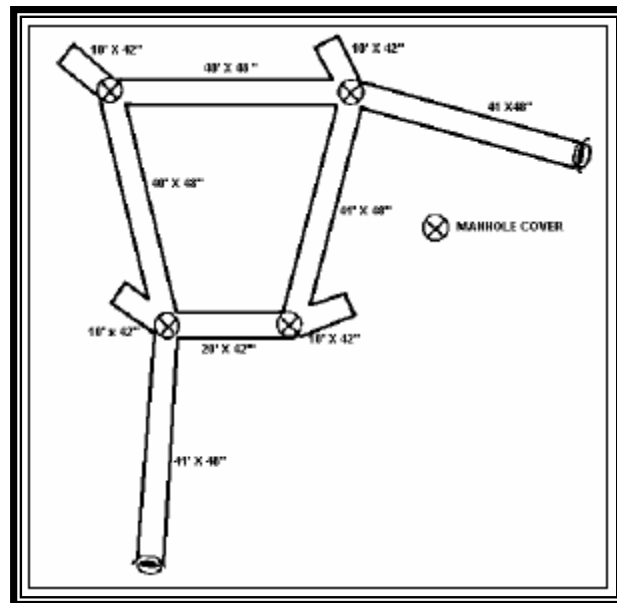


Figure 5 - Underground Trainer.

Typical Configuration.

Size:	48.77 m (1574.3 ft) of 1.22 m (4 ft) diameter concrete pipe, and 30.5 m (983.9 ft) of 1.067 m (3.5 ft) diameter concrete pipe
Occupancy:	N/A
Foundation:	N/A
Shell:	N/A
Roof:	N/A
Opening:	2 concrete headwalls and 4 manholes
Windows:	N/A
Interior Finishes:	None
HVAC:	None
Standard Lighting:	None
Lightning Protection:	None
Power:	None
Telephone:	None
Data Communication:	None
Cameras:	None
Target Power Outlets/Cable Jacks:	None

Targetry. Station 5 is a force-on-force training station and has no targetry.